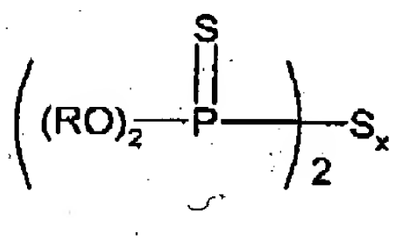
COMPLETE LISTING OF THE CLAIMS:

The listing of claims will replace all prior versions, and listing, of claims in the application.

1. (Previously Presented) Vulcanizable rubber mixes comprising:

a) rubbers,

b) O,O-bis-(alkyl)dithiophosphoric acid polysulfides corresponding to the formula



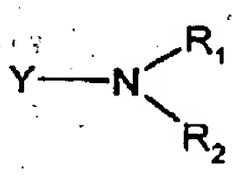
wherein

x represents 2, 3, 4 or 5 and

R represents a C_8-C_{12}-alkyl or –cycloalkyl radical

and

c) primary and/or secondary amines corresponding to the formula



wherein

Y represents hydrogen or a mercaptobenzothiazole radical,

R_1 represents hydrogen, C_1-C_6-alkyl, C_5 or C_6-cycloalkyl C_7-C_{12}- aralkyl and

R_2 has the same meaning of R_1,

with the proviso that R_1 and R_2 do not simultaneously represent hydrogen,

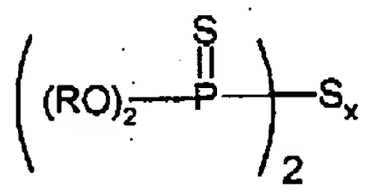
wherein the components b) and c) are in a molar ratio from (0.5 to 1.5) : 1 and are present in a total amount of from 1 to 10 parts by wt. per 100 parts by wt. of rubbers in the rubber mixes, and

d) 0.5 to 3.0 wt.-% sulfur, based on the rubber.

2. (Previously Presented) Rubber molded products comprising vulcanizable rubber mixes comprising:

a) rubbers,

b) O,O-bis-(alkyl)dithiophosphoric acid polysulfides corresponding to the formula



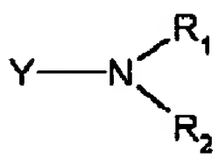
,

wherein

x represents 2, 3, 4 or 5 and

R represents a C_8-C_{12}-alkyl or –cycloalkyl radical

c) primary and/or secondary amines corresponding to the formula



,

wherein

Y represents hydrogen or a mercaptobenzothiazole radical,

R_1 represents hydrogen, C_1-C_6-alkyl, C_5 or C_6-cycloalkyl C_7-C_{12}- aralkyl and

R_2 has the same meaning of R_1,

with the proviso that R_1 and R_2 do not simultaneously represent hydrogen,

wherein the components b) and c) are in a molar ratio from (0.5 to 1.5) : 1 and are present in a total amount of from 1 to 10 parts by wt. per 100 parts by wt. of rubbers in the rubber mixes, and

d) 0.5 to 3.0 wt.-% sulfur, based on the rubber.

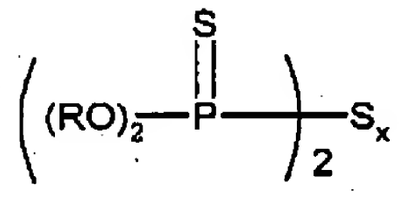
3. (Original) A rubber molded product according to Claim 2, wherein said rubber molded product is selected from the group consisting of tires, hoses, damping components, seals and profiles.

4. (Previously Presented) A process for preparing vulcanizable rubber mixes according to claim 1 which may be vulcanized with a high crosslink density and a high proportion of short sulfur bridges, which process comprises mixing the rubbers a) with the components b), c) and d).

5. (Previously Presented) A process for increasing the crosslink density and the proportion of monosulfide sulfur bridges in the vulcanization of a rubber mix comprising

a) rubbers and d) 0.5 to 3.0 wt.-% sulfur, based on the rubber, by using a combination of

b) O,O-bis-(alkyl)dithiophosphoric acid polysulfides corresponding to the formula



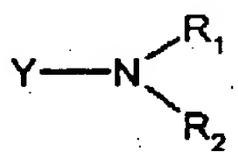
wherein

x represents 2, 3, 4 or 5 and

R represents a C_8-C_{12}-alkyl or –cycloalkyl radical

and

c) primary and/or secondary amines corresponding to the formula



wherein

Y represents hydrogen or a mercaptobenzothiazole radical,

R_1 represents hydrogen, C_1-C_6-alkyl, C_5 or C_6-cycloalkyl C_7-C_{12}- aralkyl and

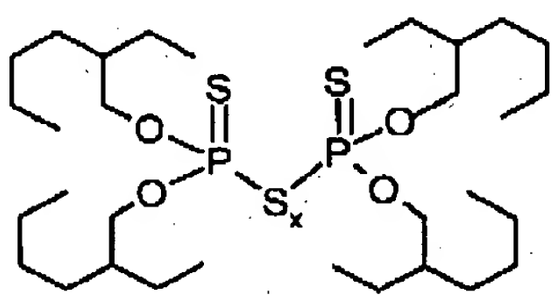
R_2 has the same meaning of R_1,

with the proviso that R1 and R2 do not simultaneously represent hydrogen,

wherein the components b) and c) are in a molar ratio from (0.5 to 1.5) : 1 and are present in a total amount of from 1 to 10 parts by wt. per 100 parts by wt. of rubbers in the rubber mixes.

6. (Previously Presented) Vulcanizable rubber mixes according to claim 1, wherein component c) is selected from the group consisting of cyclohexylamine, dicyclohexylamine, and N,N,-dicyclohexyl-2-benzothiazole sulfenamide.

7. (Previously Presented) Vulcanizable rubber mixes according to claim 1, wherein component b) is a compound of the formula



wherein x is 2 – 5.